

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

SEQ. ID. NO.:1

AAGCTTAATTGGGGGCCAAGTAGACAGCAGGACATTTCAGTGTGCCTTGTTTCCTTTGTCTTTTGGCTCCA  
GGTATCAGCAAGCCAAACAAAGGCCCTCATCTAAGCTGTGTTCTTCAGGCCTACCTCCAGCGCCAGAA  
TGAGCCTATTGGCCCCACAGCTCTCAGGAGCAAGAGTGATGTACAGGACATTGTGAGCAAGAAGTGGGT  
GCTGCAAACTGCATAACCCCCCTCCTACCGGCAAGACACCGAGTGCTCACACAGAGCTTACTCGTAGGAC  
TTGCCAGCTGGTTAAGACACACCCCTGCCATTTTCTCTAACAAGCAGGAGTTCAGTTCAGTTCACAGGGAT  
GGGTTGGGACCAGGATGGCCACTTTGATCACATGGGAGGGGCGTGGTGTGTGCAGTTAGGAACAAAGTC  
TCCCCCTATTTAAGTCCAGCGCTCTGTGCTTTAGTTGATCCCTGGTGTCTCGTGTCTTTGTCTGCTGCTG  
TCCCGCCACCAGCCCCAGCCATGCAGGGACCCCTGGGTGCTGCTGCTGCTGGGCCCTCAGGCTACAGCTGTC  
CCTTAGTGTCAATCCAGGTAATGAGGCTCCTTCCAATGAACACCCCATTCACCCCATGGACCCCTCATG  
CTGACCCCTCCTCTGCTATTCCCTTGGCCAGTGGAGGAGGAGAACCCGGCCTTCTGGAACAAGAAGGCAG  
CCGAGGCCCTGGATGCTGCCAAGAAGCTGCAGGCCATTTCAGACATCAGCTAAGAACCCTCATCATCTTCCT  
GGGTGACGGTGAGTGTGTGAGCGAGGCCCTGCCACCCCTGGGGCCCTTGTACTCCAAGTACCAGGGGCCACT  
GGTGGGTACGGACAGGCCCTCAGGGTTCAGTCTGACGAGGTTCTGCTCCTTCAGGAATGGGGGTACCAAC  
AGTGACAGCCACCAGGATCCTAAAGGGACAGTTTGAAGGTCATCTAGGACCTGAGACACCCCTAGCCATG  
GACCGCTTCCCATATATGGCTCTGTCCAAGGTGAGTTCTTAGCCACATCTGAAATGACTGATGGGATCCA  
GGGCAAGGGAGGCAGAGAGGCTCGGGTGAAGAAATAAATGTCTGCTTTGAGCCAGTTGGGGTGTCTCTG  
TCCCCAGACATACAGTGTGGACAGACAGGTTCCAGACAGTGCAAGCACGGCCACCGCCTACCTGTGTGGG  
GTCAAGACCAACTACAAGACCATCGGCTTGAGTGCAGCCGCGAGATTGACCAAGTGAACACCACATTTG  
GCAATGAGGTCTTCTCAGTGTGTACCGTGCCAAGAAAGCAGGTGAGTTGGAGCCAGGCTCAGCTATGGG  
GGGCAAGCCTAGGGGACTGGATGTCTACCCCTGACCTTTGCCGTCTTCAGGAAAATCCGTAGGTGTGGTG  
ACCACCACCAGAGTGCAGCACGCCCTCTCCCTCGGGCACATATGTTACACAGTGAACCGCAATTGGTATG  
GGGATGCTGACATGCCTGCCTCTGCGCTGCGGGAAGGTTGCAAGGACATTGCTACACAACCTCATCTCCAA  
CATGGACATTAATGTAAGGATAAGCATGTCAAAGGGAGAGGGTAAGGGGAGGGAGAGGAGAAGGAGG  
GGGAGGGAGGGGGAGGTGAGGGGGTCAAGGGGGGAAGGGGTGGTCCCAGGCAACCTTGTAGACTGAAC  
TCCCTGGATCTTCTGGGGTCTTTGAGGGCCGGGTAGTTTCAGTTCCACATACCTGGTGAGGAGCTAGGGA  
CTGGCAGGAAAAGGAGGCAGAAAGACAACCTAAAGTTCACCTTCCCTCATCTCTGACCACAGGTGATC  
CTGGTGGGGGGCGAAAATACATGTTTCTGTGTGAACCCAGACCCCGAGTATCCAAATGATGCTAATG  
AGACTGGAACCAAGATTGGATGGCAGGAATCTGGTGCAGGAATGGCTGTCAAAGCACCAAGGTGACCGCATG  
CAGAATATTAGTGATACAGTGGAGACCAGGGAAGGGCTTTGAACCTTACCAGTTGCTTATGTCCCTCTAG  
GGATCCCAGTATGTTTGAATCGTGAACAACCTATTTCAGAAGGCCAGGATCCGTGAGTACATACCTCA  
TGGGTAATGGCCCCACACTTCCTGCACTGGTACACCTCATATGGCAACCACTGATCCTCTGTGTATATAT  
GTACCGTGACCCCACTGCCAAGCTTGGTGGTCAACAGTATATATTTTGGTTTTGTACCTCAGGCCTCTTT  
GAGCCTGTAGACACAAAATTTGATATTCAACGAGATCCCCGTGATGGACCCATCTCTGAAGSATATGACAG  
AGACGGCCGTGAAAGTGCTAAGCAGGAACCCCAAGGCTTTTATCTCTTTGTGGAGGGTGAGTCTCCAAG  
CTCCCATGGAAAGAGGGGACAATGGACAGGGACAGGCTCAAGCTCACTGGCTTCCTGCAGGGGGCCGAAT  
CGACCGTGGTGACCATCTGGGCACAGCTTATCTGGCGCTGACTGAGGCTGTGATGTTGACTTAGCCATC  
GAGAGGGCCAGCCAGCTCACTAGTGAACGCGACACTCTGACCATAGTCACTGCTGACCACTCCCATGTCT  
TCTCCTTTGGTGGCTACACACTTCGAGGGACCTCCATCTTCGGTAGGTTCCGGGAACAGTGGCAGGCTGTC  
AATTACGTACAGAATACTTCTGAGCCATCGTTTTCTCTGTCTGTAAATGGACAGAAATGGCACCTGCCT  
TGTGGGATCTAGCAACGACTGAACCACTGGCCAGGCAAAAGGCGGGGCTCGTCTAAGCATCATCTTG  
GCAGGAAAAAGTGTCCTCTTCCCCATGCAGGGCTGGCTCCCCCAATGCTCTGGACGGCAAGCCCTAC  
ACCTCCATCCTGTATGGCAACGGCCAGGCTATGTGGTACAGGGGAAAGACCCAACGTACCGCCGCTG  
AAAGCAGTGAGTGCGGTGGGGTGGCTTGCCTGAAGGTCGGGTAGAGGTGACTCAGATCAGAGTCCCTCTCC  
CTTAACATCTTGTCCCTACCAGGTGGCTCATCGTACCGCAGGCAGGCTGCTGTGCCGGTGAAGTCGGAGA  
CCCACGGCGGGGAGGACGTGGCGATATTGCGCGTGGCCCGCAGGCGCACTTGGTGCACGGGGTGCAGGA  
GCAGAATACTACGCGCACGTCTATGGCTCTGCAAGGCTGCCTGGAGCCCTACACCGACTGCGGCTTGGCA  
CCCCCTGCAGATGAAAGCCAGACCACACGACAACCCGCCAGACCACCATCACCACCACCACCACCACCA  
CCACCACCACAACCAACCCCGGTCCATAACAGCGCCAGAAGCCTGGGGCCAGCCACCGCCCCGCTGGCTCT  
GGCGCTGCTGGCCGGAATGCTGATGCTACTACTAGGGGCTCCTGCGGAGTCTTAACTCCAGCACATCTA  
GGCTCCACCCACTAGGTCCACGCCCCACCTGGTCTTCCCTTCCCTGACCTCAGTGCTCCCTGCATTC

FIGURE 1A

APPROVED	O.G. FIG.
BY	CLASS/CLASS
DATE/TIME	

TCCTGCGGGCTCTACCCAGGATCCTCTCTCTGTCTTTCTGCTACTGGCCTCATGTCTAGCCCTACCTT  
 GCATTGCAGCTTCCAGGTTCCCTCCTACCCAGGCACTCACAAAGGCCAATCACCTCTGAGCTAGCAGCCAG  
 CCTCAGACCCACAGAGTTACTTCTCCCCAGGCAGCATGACCACCAAGGCCTTGGACCTCCCGGGGCAAT  
 CCGGACTCTCCTTTTGGCCCTCATCCATCAGCCCCCTAGAAAAAGATAGGATCCCGCAATAATTTGTGGAGG  
 ACCAAACATGCACCTGCCATTGGCACTTCTCCGAGCTTGAATCCATCTTACAGGCTCTGTACCCAGGA  
 CTAAGGCACAAGAGAACACAGAGAGAGGCTGTCTTCCCACTACTCCTCGGTCTAATCTGCTGGCAGGTGG  
 CAAGGCTACGGTGTCTGGGTACCCCTAGCCAGCCTTTGACATAGTTCTTCCCTCGATGTCTCTGGACCAGCTC  
 CACATTCAAAACCATCATGGCTCAGCCATACCAACCCACAGAGCGAAGATTCTGAAATCGTTCAGCCCTT  
 TCATGTCTATTGCCAGCTAGGAGATTCAAAGAGCTGTACCCACCCCACTCTCAGGTCATCTCAGGTTG  
 CACCTAAATTTCTGAACTGAGAAAAGTCCCTAACTTCCCAGGTCTGCATTCCCCGGGGAGAGTCAAGTC  
 AATAATAAAAGAATGTATTCAATACAATAGCAATAGTCATTTTCTTTTCTTTCGGCTCAAAACCAGAGCC  
 TAGTGCTGTAGGAACGTGCTCTGCCACTGATCCATAGCCCCATATCATCTCTCCCTCCCTCTCCT  
 CCTCCCTCTTCTCCTTCCCTCCTCCTCCTATGACTCTGTAGCCCAAGCTGGCTCAAATTTATGACAGT  
 CCAGTTGCTACAGTCTCCAGATGCTGGATTTTAAGTGTGAGCCACACTCCTAGCATCTTAGTAGGACCT  
 TTGCAGAAGGAAAAGCCTGAAGTGTCTGGAGCACTGAGTTCAGATGGGGGAGGGGTAATAGTGGAGCCTCA  
 GTTGGAGAGAGACAGCCAGCTGAGCAAGATCCTGAATGAGGTGAAGGCCTGAGCCAACACCACAGCAG  
 TGCTAATCCCCCACCCCCAGGCCAGCGATCAGCTGGAAGGTTGCAACGACTGGGTGAGAGAGGTTGGCT  
 GGGACAGAGGATGCAAAGCTGGAGCTGCAAGGAGCTGTGGGAGGAGAGGAAGAATTTAAATCCATGGC  
 AGTGTGGTCACAAGCCTTTGAATAAGAATTCAGGACGTGGTACTTTTTCTATTGCAGGAAATATGCAATC  
 TTTTCCCTTTTCTCCTGTTTTTTTTTTCATGGGGGGTGGGAATGGGTGTTAGATATAGGAGCTGGTCA  
 GCCAGAGGGGAGATGCAGACCCTAACCATCTCTGACTTGCATTGGAACCTGGTGGAGCACCACCCAGTA  
 TAGTTCTTGGCCCCCTGTCTAACCTGCCCAATGAGGACATTTGAAGGAATTACGTAAAGGTGGATTAAGCT  
 GTGTTTCTCAGTAAGTTTTGCAACACTACAAATTTATCTGTACATTTATGAAGGTACAAAAACACTTT  
 GCTCCCACTAGTAATATTAGGAAGATTGAATATGCATCCTTATTTGCTAAAATCTTGATTTAACTGTG  
 AAACATCAATTGAAATCTTGGCTCTCGGAGTAGTTTATTTCAATTCCGGATTTTAGTGGCTGTGAGAA  
 AATATGGGAGCTGAATGGAAAAGGCCATCGTTAAACAAAGCTT

SEQ. ID. NO.:2

MQGPWVLLLLLGLRLQLSLSVIPVEEENPAFWNKKAAEALDAAKKLQPIQTSAKNLIIFLDGDMGVPTVTAT  
 RILKGQLEHGLGPETPLAMDRFPYMALSKTYSVDRQVPDSASTATAYLCGVKNTNYKTIGLSAAARFDQCN  
 TFGNEVFSVMYRAKKAGKSVGVVTTTRVQHASPSGTIVHTVNRNWDADMPASALREGCKDIATQLISNM  
 DINVILGGGRKYMFPAGTPDPEYPNDANETGTRLDGRNLVQEWLSKHQGSQYVWNREQLIQKAQDPSV  
 TYLMGLFEPVDTKFDIQRDPLMDPSLKDMTETAVKVLNRNPKGFYLFVEGGRIDRGHHLGTAYLALTEAV  
 MFDLAIERASQLTSEKDTLTIVTADHSHVFSFGGYTLRGTSIFGLAPLNALDGKPYTSILYGNPGYVGT  
 GERPNVTAAESSGSSYRRQAAPVKSETHGGEDVAIFARGPQAHLVHGVQEQNYIAHVMAAGCLEPYTDCGL  
 APPADESQTTTTTRQTTITTTTTTTTTTTTTTPVHNSARSLGPATAPLALALLAGMLMLLLGAPAES

FIGURE 1B

APPROVED	DATE
BY	CLASS/SUBCLASS
DRAFTSMAN	

Underlined = deleted in targeting construct

**Bold** = sequence flanking Neo insert in targeting construct

**AAGCTTAATTGGGGGGCCAAGTAGACAGCAGGACATT**CAGTGTGCCTTGTTCCTTTGTCT  
**TTTGGCTCCAGGTATCAGCAAGCCAAACAAAGGCCCTCATCTAAGCTGTGTTCTTCAGG**  
**CCTACCTCCAGCGCCAGAATGAGCCTATTGGCCCCACAGCTCTCAGGAGCAAGAGTGA**  
**TGTACAGGACATTGTGAGCAAGAAGTGGGTGCTGCAAACGCATAACCCCCCTCTACCG**  
**GCAAGACACCGAGTGCTCACACAGAGCTTACTCGTAGGACTTGCCAGCTGGTTAAGACAC**  
**ACCCTGCCATTTTCTCTAACAAGCAGGAGTTCAGTTCAGTTCACAGGGATGGGGTGGGAC**  
**CAGGATGGCCACTTTGATCACATGGGAGGGCGTGGTGTGTGCAGTTAGGAACAAAGTC**  
**TCCCCCTATTTAAGTCCAGCGCTCTGTGCTTTAGTTGATCCCTGGTGTCTCGTGTCTTTG**  
**TCTGTCTGTGTCCCGCCACCAGCCCCAGCCATGCAGGGACCCTGGGTGCTGCTGCTGCTG**  
**GGCCTCAGGCTACAGCTGTCCCTTAGTGT**CATTCCAGGTAATGAGGCTCCTTCCAATGAA  
CACCCCATTTCCACCCATGGACCCCTTCATGCTGACCCCTTCCTCTGCTATTCCCTTGGCCA  
TGGGAGGAGGAGAACCCGGCCTTCTGGAACAAGAAGGCAGCCGAGGCCCTGGATGCTGCC  
**AAGAAGCTGCAGCCCATTCAGACATCAGCTAAGAACCCTCATCATCTTCCTGGGTGACGGT**  
**GAGTGTGTGAGCGAGGCCTGCCACCCTGGGGCCCTTGTACTCCAAGTACCCAGGGCCACT**  
**GGTGGGTACGGACAGGCCTCAGGGTTCAGTCCTGACGAGGTTCGTCTCCTTCAGGAATGG**  
**GGGTACCAACAGTGACAGCCACCAGGATCCTAAAGGGACAGTTGGAAGGTCATCTAGGAC**  
**CTGAGACACCCCTAGCCATGGACCGCTTCCCATATATGGCTCTGTCCAAGGTGAGTTCTT**  
**AGCCACATCTGAAATGACTGATGGGATCCAGGGCAAGGGAGGCAGAGAGGCTCGGGTGAA**  
**GAAATAAATGTCTGCTTTGAGCCCCAGTTGGGGTGTCTCTGTCCCCAGACATACAGTGTGG**  
**ACAGACAGGTTCCAGACAGTGCAAGCACGGCCACCGCCTACCTGTGTGGGGTCAAGACCA**  
**ACTACAAGACCATCGGCTTGAGTGCAGCCGCGAGATTCGACCAGTGCAACACCACATTTG**  
**GCAATGAGGTCTTCTCAGTGA'TGTACCGTGCCAAGAAAGCAGGTGAGTTGGAGCCAGGCT**  
**CAGCTATGGGGGGCAAGCCTAGGGGACTGGATGTCTCACCCCTGACCTTTTGCCGTCTTCAG**  
**GAAAATCCGTAGGTGTGGTGAACACCAGAGTGCAGCACGCCCTCTCCCTCGGGCACAT**  
**ATGTTTCACAGTGAACCGCAATTGGTATGGGGATGCTGACATGCCTGCCTCTGCGCTGC**  
**GGGAAGGTTGCAAGGACATTGCTACACAACCTCATCTCCAACATGGACATTAATGTAAGGA**  
**TAAGCATGTCAAAGGGAGAGGGTAAGGGGAGGGAGAGGAGGAGAAGGAGGGGGAGGGAGG**  
**GGGAGGTCAAGGGGGTCAAGGGGGGAAGGGGTGGTCCCAGGCAAACCTTGTAGACTGAAC**  
**TCCCTGGATCTTCTGGGGTCTTTGAGGGCCGGGTAGTTCAAGTCCCACATACCTGGTGAG**  
**GAGCTAGGGACTGGCAGGAAAAGGAGGCGAAGACAAACCTAAAGTTCACCTTCCTTCATC**  
**CTCTCTGACCACAGGTGATCCTTGGTGGGGGGCGAAAATACATGTTTCTGTGGAACCC**  
**CAGACCCCGAGTATCCAAATGATGCTAATGAGACTGGAACCAGATTGGATGGCAGGAATC**  
**TGGTGCAGGAATGGCTGTCAAAGCACCAGGTGACCGACTGCAGAATATTAGTGATACAGT**  
**GGAGACCAGGGAAGGGCTTTGAACCTTACCAGTTGCTTATGTCCCTCTAGGGATCCCAGT**  
**ATGTTTGAATCGTGAACAACCTCATTGAGAAGGCCAGGATCCGTCAAGTGCATACCTCA**  
**TGGGTAATGGCCCCACACTTCCTGCACTGGTACACCTCATATGGCAACCACTGATCCTCT**  
**GTGTATATATGTACCGTGACCCCACTGCCAAGCTTGGTGGTCAACAGTATATATTTTGGT**  
**TTGTACCTCAGGCCTCTTTGAGCCTGTAGACACAAAATTTGATATTCAACGAGATCCCC**  
**TGATGGACCCATCTCTGAAGGATATGACAGAGACGGCCGTGAAAGTGCTAAGCAGGAACC**  
**CCAAAGGCTTTTATCTCTTTGTGGAGGGTGAGTCTCCAAGCTCCCATGGAAGAGGGGAC**  
**AATGGACAGGGACAGGCTCAAGCTCACTGGCTTCCTGCAGGGGGCCGAATCGACCGTGGT**  
**CACCATCTGGGCACAGCTTATCTGGCGCTGACTGAGGCTGTGATGTTGACTTAGCCATC**  
**GAGAGGGCCAGCCAGCTCACTAGTGAACGCGACACTCTGACCATAGTCACTGCTGACCAC**  
**TCCCATGTCTTCTCCTTTGGTGGCTACACACTTCGAGGGACCTCCATCTTCGGTAGGTTT**  
**GGGAACAGTGGCAGGCTGTCAATTACGTACAGAATACTTCTGAGCCATCGTTTTCTCTGT**  
**CTGTAAAATGGACAGAAATGGCACCTGCCTTGTGGGGATCTAGCAACGACTGAACCAC**  
**TGCGAGGCAAAAGCGGGGGCTCGTCTAAGCATCATTCTTGGCAGGAAAAGTGTCCCTCT**  
**TCCCCCATGCAGGGCTGGCTCCCCCTCAATGCTCTGGACGGCAAGCCCTACACCTCCATCC**  
**TGTATGGCAACGGCCAGGCTATGTGCGTACAGGGGAAAGACCCAACGTCACCGCCGCTG**  
**AAAGCAGTGAGTGCAGGTGGGGTGGCTTGCCTGAAGGTCCGGTAGAGGTGACTCAGATCAG**  
**AGTCTCTCCCTTAACATCTTGTCCCTACCAGGTGGCTCATCGTACCGCAGGCAGGCTGC**  
**TGTGCCGGTGAAGTCCGAGACCCAGCGGGGAGGACGTGGCGATATTCCGCGCTGGCCC**  
**GCAGGCGCACTTGGTGCACGGGGTGCAGGAGCAGAATACTACATCGCGCACGTCTATGGCCTC**  
**TGCAGGCTGCCTGGAGCCCTACACCGACTGCGGCTTGGCACCCCTGCAGATGAAAGCCA**  
**GACCACCAAGACAACCCGCCAGACACCATCACCAACCAACCAACCAACCAACCAACCAAC**  
**AACCACCCCGGTCCATAACAGCGCCAGAAGCCTGGGCCCAGCCACCGCCCCGCTGGCTCT**

FIGURE 2A

GGCGCTGCTGGCCGGAATGCTGATGCTACTACTAGGGGCTCCTGCGGAGTCCTAAACTCC  
AGCACATCTAGGCTCCACCCACTAGGTCCCACGCCCTCACCTGGTCCTTCCCTTCCCTGA  
CCTCAGTGCTCCCTGCATTCTCCCTGCGGGCTCTACCCAGGATCCTCTCTGTCTTTTC  
TGCTACTGGCCTCATGTCTAGCCCTACCTTGCAATTGCAGCTTCCAGGTTCCCTCCCTACCCA  
GGCACTCACAAAGGCCAATCACTCTGAGCTAGCAGCCAGCCTCAGACCCACAGAGTTA  
CTTCTCCCCAGGCAGCATGACCACCAAGGCCTTGGACCTCCCGGGGCAATCCGGACTCTC  
CTTTTGCCCTCATCCATCAGCCCCCTAGAAAAAGATAGGATCCCGCAATAATTGTGGAGG  
ACCAAAACATGCACCTGCCCATTTGGCACTTCCTCCGAGCTTGAATCCATCTTACAGGCTCT  
GTACCCAGGACTAAGGCACAAGAGAACACAGAGAGAGGCTGTCTTCCCACTACTCCTCGG  
TCTAATCTGCTGGCAGGTGGCAAGGCTACGGTGCTGGGTACCCTAGCCAGCCTTTGACAT  
AGTTCTTCCCTCGATGTCTCTGGACCAGCTCCACATTCAAACCATCATGGCTCAGCCATA  
CCAACCCACAGAGCGAAGATTCTGAAATCGTTTCAGCCCTTTCATGTCTATTGCCAGCTA  
GGAGATTCAAAGAGCTGTACCCACCCCACTCTCAGGTCACTCAGGTTGCACCTAAATT  
TCTGAACTGAGAAAAGTCCCTAACTTCCCAAGGTCTGCATTCCCTGGGGAGAGTCAAGTC  
AATAATAAAAGAATGTATTCAATACAATAGCAATAGTCATTTTCTTTTCTTCCGGCTCAA  
AACCAGAGCCTAGTGCCTGCTAGGAACGTGCTCTGCCACTGATCCATAGCCCCATATCAT  
CTCCTCCCCCTCCCCCTCTCCTCCTCCTCCTTCTCCTTCCCCCTCCTCCTCCTATGACTCTGT  
AGCCCAAGCTGGCCTCAAATTTATGACAGTCCACTTGCTACAGTCTCCAGATGCTGGAT  
TTTAAGTGTGAGCCACACTCCTAGCATCTTAGTAGGACCTTTGCAGAAGGAAAGCCTGAA  
GTGTCTGGAGCACTGAGTTCAGATGGGGGAGGGTAATAGTGGAGCCTCAGTTGGAGAGA  
GACAGCCAGCTGAGCAAGATCCTGAATGAGGTGAAGGCCTGAGCCAACACCACACAGCAG  
TGCTAATCCCCCACCCCCCAGGCCAGCGATCAGCTGGAAGGTTGCAACGACTGGGTGAGA  
GAGGGTGGCTGGGACAGAGGATGCAAAGCTGGAGCTGCAAGGAGCTGTGGGAGGAGAGGA  
AGAACTTTAAAATCCATGGCAGTGTGGTCACAAGCCTTTGAATAAGAATTCAGSACGTGG  
TACTTTTTCTATTGCAGGAAATATGCAATCTTTTCCCCCTTTTTTCTGTTTTTTTTTTCC  
ATGGGGGGTGGGAATGGGTGTTAGATATAGGAGCTGGTCAGCCAGAGGGGAGATGCAGAC  
CCTAACCATCTCTGACTTGCAATTGGAACCTTGGTGGAGCACCACCCAGTATAGTTCTTGG  
CCCCTGTCTAACCTGCCCAATGAGGACATTTGAAGGAATTACGTAAAGGTGGATTAAAGCT  
GTGTTTCTCAGTAAGTTTTGCAACACTACAAATTTATCTGTACATTTATGAAGGTACAAA  
AACACACTTTGCTCCCACTAGTAATATTAGGAAGATTGAATATGCATCCTTATTTGCTAA  
AATCTTGATTTAACACTGTGAAACATCAATTCGAAATCTTGGCTCTCGGAGTAGTTTATT  
TCAATTCCGGATTTTAGTGGCTGTGAGAAAATATGGGAGCTGAATGGAAAAAGGCCATC  
GTTAACAAAGCTT

FIGURE 2B

### Gene Sequence Structure \*

Size of genomic: 5293 bp

## Targeting Vector\* (genomic sequence)

Construct Number: 2109

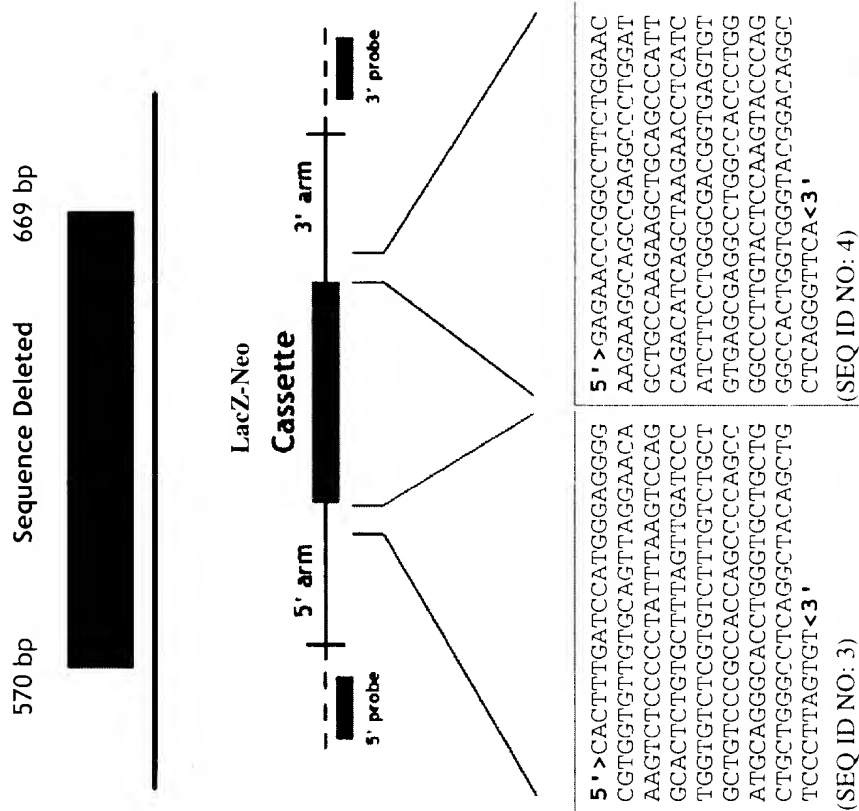
**Arm Length:**

5': 1.1 kb

3': 3.3 kb

— Targeting Vector  
- - - Endogenous Locus

\* Not drawn to scale



**FIGURE 2C**